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Response to Office Action Dated 02/09/2007

In the Claims**APR 09 2007**

1           2. (Previously Presented) A processor-readable medium comprising  
2 processor-executable instructions for generating a PDF (portable document  
3 format) document from a PPML (personalized print markup language) document,  
4 the processor-executable instructions comprising instructions for:

5                 6 parsing structures within the PPML document;  
6                 7 generating a PDF document tree;  
7                 8 interpreting the parsed structures from the PPML document onto locations  
8 on the PDF document tree; and  
9                 10 configuring a PDF document according to the PDF document tree.

11  
12           2. (Previously Presented) The processor-readable medium of claim 1,  
13 additionally comprising instructions for:

14                 15 printing the PDF document.

16           3. (Previously Presented) A processor-readable medium as recited in  
17 claim 1, wherein interpreting the parsed structures comprises instructions for:

18                 19 resolving, for objects within the PPML (personalized print markup  
language) document, a PPML SOURCE\_TYPE class; and  
20                 21 translating the objects according to the PPML SOURCE\_TYPE class.

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1       4. (Previously Presented) A processor-readable medium as recited in  
2 claim 1, wherein interpreting the parsed structures comprises instructions for:  
3              un-marshalling a PPML instance, when a PPML (personalized print markup  
4 language) tag refers to an external object; and  
5              embedding the external object into the PDF document.

6  
7       5. (Previously Presented) A processor-readable medium as recited in  
8 claim 4, wherein the external object to which the PPML (personalized print  
9 markup language) tag refers includes fonts and images.

10  
11      6. (Previously Presented) A processor-readable medium as recited in  
12 claim 1, wherein interpreting the parsed structures comprises instructions for:  
13              resolving references within the parsed structures into PDF (portable  
14 document format) assets; and  
15              incorporating the PDF assets into the PDF document.

16  
17      7. (Previously Presented) A processor-readable medium as recited in  
18 claim 6, wherein resolving references comprises instructions for:  
19              resolving an image asset into an InputSource object using a PPML  
20 (personalized print markup language) structure; and  
21              incorporating the image asset into the PDF document.

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1       8. (Previously Presented) A processor-readable medium as recited in  
2 claim 7, wherein the PPML (personalized print markup language) structure  
3 comprises:

4           <SOURCE Format="image/jpeg" Dimensions "dim1 dim2">  
5            <EXTERNAL\_DATA\_ARRAY Src="filename.jpg"/>  
6          </SOURCE>

7  
8       9. (Previously Presented) A processor-readable medium as recited in  
9 claim 1, wherein interpreting the parsed structures comprises instructions for:  
10           resolving assets within the parsed structures into objects; and  
11           incorporating the objects into the PDF (portable document format)  
12 document.

13  
14     10. (Previously Presented) A processor-readable medium as recited in  
15 claim 9, wherein resolving assets comprises instructions for:  
16           using a PPML (personalized print markup language) structure to translate  
17 an asset into an iText font representing a TTF font.

18  
19     11. (Previously Presented) A processor-readable medium as recited in  
20 claim 1, wherein interpreting the parsed structures comprises instructions for:  
21           reutilizing PPML (personalized print markup language) global objects  
22 found within the PPML document with a PPML structure, wherein the PPML  
23 global objects are configured as REUSABLE\_OBJECT\_TYPE.

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1       12. (Previously Presented) A processor-readable medium as recited in  
2 claim 1, wherein interpreting the parsed structures comprises instructions for:  
3             locating PPML (personalized print markup language) global impositions  
4 when parsing the structures within the PPML document; and  
5             reutilizing the PPML global impositions.

6  
7       13. (Previously Presented) A processor-readable medium as recited in  
8 claim 12, wherein reutilizing PPML (personalized print markup language) global  
9 impositions comprises instructions for:

10             reutilizing IMPOSITION\_TYPE instances.

11  
12       14. (Previously Presented) A system for converting a PPML  
13 (personalized print markup language) document into a PDF document,  
14 comprising:

15             a first component, operable on a processor, to parse structures and tag items  
16 within the PPML document;

17             a second component, operable on the processor, to generate a PDF  
18 document tree; and

19             a third component, operable on the processor, to translate the tagged items  
20 within the PPML document, and to locate the translated items on the PDF  
21 document tree.

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1       15. (Previously Presented) The system of claim 14, additionally  
2 comprising:

3           a forth component to un-marshall PPML (personalized print markup  
4 language) instances of external objects for embedding within the PDF document  
5 tree.

6  
7       16. (Previously Presented) The system of claim 14, wherein the forth  
8 component comprises:

9           a SourceResolver to resolve references into assets for attachment to the  
10 PDF (portable document format) document tree;

11           a FontResolver Interface to resolve fonts for access by the PDF document;

12           an OccurrenceStore Interface to reutilize PPML (personalized print markup  
13 language) global objects for access by the PDF document; and

14           an ImpositioningStore to reutilize PPML global impositions for access by  
15 the PDF document.

16  
17       17. (Previously Presented) The system of claim 14, additionally  
18 comprising:

19           a fourth component to resolve PPML SOURCE\_TYPE class of the  
20 structures within the PPML (personalized print markup language) document.

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22  
23  
24  
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1           18. (Original) The system of claim 14, wherein the third component  
2 translates the items tagged as a function of a type associated with each of the items  
3 tagged.

4

5           19. (Previously Presented) The system of claim 14, wherein the third  
6 component is configured to translate a PDF (portable document format) object  
7 within a PdfTemplate defined as a function of an item type of the tagged items  
8 found during parsing by the first component.

9

10          20. (Previously Presented) The system of claim 19, wherein the  
11 PdfTemplate is configured to support caching of objects to optimize PDF (portable  
12 document format) structure.

13

14          21. (Previously Presented) A PPML (personalized print markup  
15 language) to PDF (portable document format) converter for converting a PPML  
16 document into a PDF document, comprising:

17           means for parsing structures within the PPML document;  
18           means for generating a PDF document tree; and  
19           means for interpreting the parsed structures from the PPML document onto  
20 locations on the PDF document tree;  
21           wherein the means for parsing, means for generating and the means for  
22 interpreting are performed in part by operation of a processor.

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1        22. (Previously Presented) The PPML (personalized print markup  
2 language) to PDF (portable document format) converter as recited in claim 21,  
3 wherein the means for interpreting comprises:

4              means for un-marshalling a PPML instance, when a PPML tag set by the  
5 means for parsing refers to an external object; and

6              means for embedding the external object into the PDF document.

7        23. (Previously Presented) The PPML (personalized print markup  
8 language) to PDF (portable document format) converter of claim 21, additionally  
9 comprising:

10              means for resolving references into assets for attachment to the PDF  
11 document tree;

12              means for resolving fonts for access by the PDF document;

13              means for reutilizing PPML global objects for access by the PDF  
14 document; and

15              means for reutilizing PPML global impositions for access by the PDF  
16 document.

17        24. (Previously Presented) The system of claim 21, additionally  
18 comprising:

19              means for resolving, for objects within the PPML (personalized print  
20 markup language) document, a PPML SOURCE\_TYPE class; and

21              means for translating the objects according to the PPML SOURCE\_TYPE  
22 class.

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1  
2       **25.** (Previously Presented) A method for converting a PPML  
3 (personalized print markup language) document into a PDF document,  
4 comprising:

5                  parsing structures within the PPML document;  
6                  generating a PDF document tree;  
7                  interpreting the parsed structures from the PPML document onto locations  
8 on the PDF document tree; and  
9                  wherein the parsing, the generating and the interpreting are performed in  
10 part by operation of a processor, which generates the PDF document.

11  
12       **26.** (Previously Presented) The method of claim 25, wherein interpreting  
13 the parsed structures comprises:

14                  un-marshalling a PPML (personalized print markup language) instance,  
15 when a PPML tag set during parsing refers to an external object; and  
16                  embedding the external object into the PDF (portable document format)  
17 document.

18  
19       **27.** (Previously Presented) The method of claim 25, wherein interpreting  
20 the parsed structures comprises instructions for:

21                  resolving references within the parsed structures into PDF (portable  
22 document format) assets; and  
23                  incorporating the PDF assets into the PDF document.

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1        28. (Previously Presented) The method of claim 27, wherein resolving  
2 references comprises instructions for:

3                resolving an image asset into an InputSource object using a PPML  
4 (personalized print markup language) structure; and

5                incorporating the image asset into the PDF document.

6

7        29. (Withdrawn) A processor-readable medium comprising processor-  
8 executable instructions for:

9                processing a PDF document to produce a PPML document, wherein the  
10 processing comprises instructions for:

11                converting a PDF element within the PDF document into a variable  
12 object;

13                generating a macro to contain rules governing operation of the  
14 variable object; and

15                configuring the PPML document to include the variable object, the  
16 macro and the PDF document, wherein the PDF document is configured as a  
17 background within the PPML document; and

18                checking accuracy of the PPML document by producing a PDF document  
19 from the PPML document.

20

21        30. (Withdrawn) The processor-readable medium of claim 29, wherein  
22 checking accuracy comprises instructions for:

23                parsing structures within the PPML document;

24                generating a PDF document tree; and

25

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1           interpreting the parsed structures from the PPML document onto locations  
2       on the PDF document tree.

3  
4       **31. (Withdrawn) The processor-readable medium of claim 29,**  
5       additionally comprising instructions for:

6           configuring a PDF document according to the PDF document tree; and  
7           printing the PDF document.

8  
9       **32. (Previously Presented) A method for printing a PDF (portable**  
10      document format) file, comprising:

11           sending a PPML (personalized print markup language) file to a PPML to  
12           PDF converter;

13           converting the PPML file into the PDF file, wherein the converting is  
14           performed by operation of a processor and wherein the converting  
15           comprises:

16           parsing and tagging items within the PPML file and translating the  
17           tagged items;

18           generating a PDF document tree; and

19           interpreting the parsed structures from the PPML document onto  
20       locations on the PDF document tree; and  
21       printing the PDF file.

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1       **33. (Previously Presented) A system for printing a PDF (portable  
2 document format) file, comprising:**

3            **a PPML (personalized print markup language) to PDF converter,  
4 configured to receive a PPML file and configured to create the PDF file by:**

5                  **parsing structures within the PPML document;**

6                  **generating a PDF document tree;**

7                  **interpreting the parsed structures from the PPML document onto  
8 locations on the PDF document tree; and**

9                  **a printing device, to print the PDF file.**

10  
11       **34. (Previously Presented) The system of claim 33, wherein the PPML  
12 (personalized print markup language) to PDF (portable document format)  
13 converter comprises:**

14            **a parsing and tagging component configured to parse the PPML file and  
15 locate references to assets;**

16            **a translation component, to translate the assets located by the references;  
17 and**

18            **a PDF tree-generating component, to generate a PDF tree to form the PDF  
19 file according to the translated assets.**